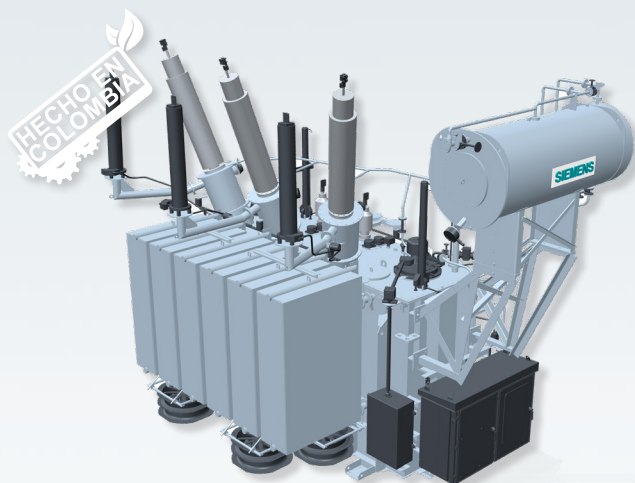


SIEMENS

Ingenuity for life



Power Transformers

Siemens Colombia Power Transformers are the best choice for transforming electrical energy in an efficient, safe and reliable way.

www.transformadores.siemens.com



In our Industrial complex in Tenjo-Colombia, we design, produce and test according to IEEE/ANSI standards liquid immersed (Mineral or Natural/Sythetic ester) power transformers up to 120MVA and 230kV.

The Power Transformers portfolio includes:

Single-phase, Three Phase transformers and Autotransformers for applications like UAT (Unit Auxiliary Transformer) for combined cycle power plants, utilities with or without LTC, substation, captive, starting transformers for O&G industry with UL label.

Also Generation Step Up (GSU), mobile substations, Reactive compensation (SVC), reconnectable ("Dual Voltage"), collectors for renewables plants

Advantages

- Wide base of power transformers. Siemens Colombia has been operating on the mainland American for more than 35 years.
- Design and manufacture of transformers with the highest quality standards, adapted to the needs of electric companies and End users, complying with the National and International standards.
- Experience in supplying equipment with environmentally friendly technologies in high tensions.
- Siemens power transformers are designed with the latest technological advances: structural simulations, electrical and Magnetic fields, fluids, thermal analysis, Seismic and short circuit analysis.
- Manufacturing times adjusted to the project needs.
- Wide backup, experience, reliability, excellence in

Project Management, ratified by our customers.

- Meet the most demanding tests: aptitude to withstand short circuit, partial discharges, SFRA (frequency response), increased Temperature and a BIL & SIL pulse.
- It has accredited laboratories (ISO17025). Routine and type tests .
- Experience in transport logistics and installation of heavy and extra loads dimensioned in areas of difficult access.
- Assembly and/or supervision of assembly and commissioning
- Local technical support and service.
- Repairs and TLM services

Main technical Features

- On-load tap changers LTC and deenergized DETC.
- Frequency: 50 Hz & 60 Hz
- Operating temperature:-50 ° C to + 50 ° c
- Installation height up to 4000 masl. Cooling: Natural or forced (ONAN, ONAF, OFAF, OFWF, KNAN, Sarath, ODAF, ODWF)
- Outlets available for AT & MT: Oil-air, Oil-SF6, oil-Oil and Plug in type (eg. Pfisterer)
- Impulse level BIL up to 1050 KV.
- Types of oil: conventional (minerals) under IEC 60296 standards; ASTM 3487. Environmentally friendly alternative fluids:natural and synthetic ester.
- Oil Preservation System: System with Conservative tank and membrane; with gas mattress with automatic system.
- Transformers with complete systems of monitoring, control and communication with standardized communication protocols for according to international standards.
- Supply and forecast for systems of explosion

protection.

- Degree of seismicity according to International standards. (IEEE, IEC and ETG (Endesa Chile))
- Exterior finish: Degree of protection to the environment according to ISO 12944-2 up to C5I & C5M. C5 or CX by agreement

Our experience

Below are some of the success stories of Transformers made in Colombia and installed in the Americas :



Sensformer®

Siemens puts digitalization at the service, disposition and reach of its customers through the evolution of the traditional transformer to the Digital Transformer- Sensformer®, allowing clients access to vital information at any time and place through a mobile device, with a via GSM secure data transmission, cloud storage and analytical tools that allow in the other benefits verify their equipment lifespan.

For more information please visit the following link:

<https://new.siemens.com/global/en/products/energy/high-voltage/transformers/sensformer.html>

This flyer contains only general descriptions that in the case of a specific application may not exactly coincide with the described, or have been modified as a result of updates to the design of the products.

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